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OMEGA SIGNAL COVERAGE PREDICTION DIAGRAMS FOR 10.2 kHz

VOLUME IV: BEARING ANGLE TABLES

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UNITED STATES COAST GUARD
Omega Navigation System Operations Detail
Washington, D.C. 20593

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16. Abstract

Individual Omega station and composite (Omega Navigation System) 10.2 kHz signal coverage prediction diagrams have been developed for eight times. The diagrams show the global accessibility of "usable" 10.2 kHz signals at eight fixed diurnal/seasonal times for two usable signal access criteria. Criterion I requires: signal-to-noise ratio (SNR) > -20 dB (in a 100 Hz noise bandwidth) and $\Delta\phi \leq 20$ centicycles (cec), where $\Delta\phi$ is the modal interference-induced phase deviation in the signal phase relative to the reference signal phase. Criterion II differs from Criterion I in that the SNR > -30 dB. Volume I presents the diagram development methodology and contains individual station nighttime modal interference diagrams. Each modal interference diagram identifies regions throughout the world where $\Delta\phi \leq 20$ cec for nighttime propagation conditions.

. Volume II presents 64 individual Omega station diagrams (Mercator projection): eight selected coverage times for each of eight stations. Each diagram displays the SNR and $\Delta \phi$ contours for a designated signal access criterion and coverage time.

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16. ABSTRACT (Continued)

Volume III contains 48 composite coverage diagrams which embody the eight coverage times, two signal access criteria, and three different projections (North and South pole centered Azimuthal Equal Distance, and Mercator). Each diagram displays the global accessibility of usable signals from the system for a designated signal access criterion and coverage time.

Volume IV tabulates the bearing angles of great circles to each Omega station. These angles are computed at latitude/longitude grid points having a uniform spacing of four degrees.

PREFACE

This volume contains the bearing angles of great circles from tabulated latitude/longitude grid points to each of the eight permanent Omega stations (Norway (A), Liberia (B), Hawaii (C), North Dakota (D), La Reunion (E), Argentina (F), Australia (G), and Japan (H)), and also to the temporary Trinidad (J) station. The angles are computed at the grid points and are measured clockwise from geographic north in degrees. The tabulated grid has a uniform spacing of four degrees between 88 degrees North (N) and South (S) latitude.

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BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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BEARINGS TO ONEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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BEARINGS TO ONEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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76 E	25 12 25 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	255 255 355 353 353 353 353 353 353 353	2667 2005 3120 3120 3120 3120 3120 3120	227 268 350 311 311 311 311 311 311	00 00000000000000000000000000000000000	00000000000000000000000000000000000000
72 E	4-464-9344 	22 E E E E E E E E E E E E E E E E E E	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	44500000000000000000000000000000000000	22 22 24 24 24 26 26 26 26 26 26 26 26 26 26 26 26 26	22 22 22 24 24 24 24 24 24 24 24 24 24 2
68 E	223 21022 2102 2102 21022 2102 21022 21022 21022 21022 21022 21022 21022 21022 21022 21022 21022 2022	22 22 22 22 22 22 22 22 22 22 22 22 22	80 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	227 260 311 311 311 311 311 311 311 311 311 31	00 BLGHER 604400	156-22622 3016-2622 3112-2622
64 E	0 - 4 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	00 W-51-10 4544600-10 E504640-10	W1=W=W NN W0000000000000000000000000000000000	2266 2566 3067 3067 3067 3067	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 - 22 - 22 - 22 - 22 - 22 - 22 - 22
60 E	00 00 00 00 00 00 00 00 00 00 00 00 00	20000000000000000000000000000000000000	00000000000000000000000000000000000000	22 20 20 20 20 20 20 20 20 20 20 20 20 2	22 8127 8 728 4880 8 888 486 7 8	N4844W04W .
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BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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	120 W	10000 1000 10000 1000 10000 1000	22 12 12 12 12 12 12 12 12 12 12 12 12 1	1000 - 1000 1000 - 1000 1000 - 1000	1186 10840 0044 00840 0044 00840	0.080 0.080	000 1100 000 1100 000 1100 000 1100 000 1100
	124 #	1000 1000 1000 1000 1000 1000 1000 100	10001 10001 10000 10000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 -000 -000 m400 0000-0049	0 -0 mm - 0 mm -	00000000000000000000000000000000000000
	128 W	1221152 122115	646455640 6464566 64645666 646466666	0-8-08-08-09-09-09-09-09-09-09-09-09-09-09-09-09-	0 8400 640 000 400 600 000 400 600	PASSES PER	00 W W W W W W W W W W W W W W W W W W
	132 W	2001448 004400 1001448 1001448	2011201 004511401 004511401	04944000000000000000000000000000000000	2008 2008 2008 2008 2008	0 WLUW 0000 0000 0000 0000 0000 0000 000	4888888-8 4888888-8
	136 1	00115000000000000000000000000000000000	00-04-04-09 00-04-04-09 00-04-04-04-04-04-04-04-04-04-04-04-04-0	4840 W L W W W W W W W W W W W W W W W W W	20 W 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2012 W 202 2014 W 202 2014 W 2014	#####################################
	140 #	424804250 0000000000000000000000000000000000	89966 6842 8847 8847 8847 8847 8847 8847 8847 8	00000000000000000000000000000000000000	20 W - W 20 W - W 20 W - W 20 W 20 W 20	22 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	121 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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7	156 W	84224 84224 84224 8432 8432	18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 18 18 18 18 18 18 18 18 1	22 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 0100 4000000 0040000000	00-4-04-0 10000004 100-4-04-0
	160 #	WL8100077	173 173 173 173 173 173 173 173 173 173	175 176 176 177 177	134 134 136 136 136 136 136 136 136 136 136 136	100 100 100 100 100 100 100 100 100 100	2010 2010 1800 1800 1800 1800 1800 1800
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	172 W	00 00 00 00 00 00 00 00 00 00 00 00 00	2011 2011 2010 400 400 400 400 400 400 400 400 400	35 2012 2012 2012 2012 2012 2012	4110000010 6411000010 7011000010	25. 1.52. 24.1.28. 68.1.39. 68.1.39.	W = 2220 W = 22200 W = 222000 W = 22200 W = 222000 W = 222000 W = 22200 W = 22200 W = 22200 W =
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BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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180 E	9	0 0 0 00 00 00 00 00 00 00 00 00 00 00	22 1 25 1 25 1 25 2 2 2 2 2 2 2 2 2 2 2	00000000000000000000000000000000000000	2003 2003 2003 2003 2003 2003 2003 2003	8 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
176 E	44 1 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	W W W W W W W W W W W W W W W W W W W	0	8 - 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
172 E	W = W WW - 480000000 08000446	N → N NN 4 480480010 NM644014010	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 10 10 10 10 10 10 10 10 10 10 10 10 10	u - a aa 4 4 4 8 0 0 0 7 8 4 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000040 0000000000000000000000000000000
168 E	WW - 0 00 W844898014 F98488169	00400004 4000004 004000000	WW W W W W W W W W W W W W W W W W W W	22 - 2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	80000000000000000000000000000000000000	2 2 3 3 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
164 E	NH N HWW PH W HWW W H W HWW W H W HW W HW W W H W H	0001 0 000 0001 0 000 00040 00040 00040 00040 00040 00040 00040	まま! 2 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	#####################################	### 0 = 0 ####################################	**************************************
160 E	232 332 1331 264 2193 411 411	21 22 133 14 14 14 14 14 14 14 14 14 14 14 14 14	21 22 6 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	233 243 275 219 219 414	24 1351 2777 201 410 410	2000 2000 2000 2000 2000 2000 2000 200
156 E	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	WWH WW HW W W W W W W W W W W W W W W W	01 0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6441 6441 6446 6446 6446 6446 6446 6446	uu- 0 -0 04000000 040000000000000000000000
152 E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WW-1 0 - 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	MW- 6 -00 W4000-4600 W446-6460	mm=	######################################
148 E	2001 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 1 24 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 200 200 200 200 200 200 200 200	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 + 1000 1000 1000 1000 1000 1000 100	20 - 2 - 3 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
144 E	2314 121 121 268 268 177 195 25	2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2001 20 11 20 20 12 20 1	NH - N - W H W H W H W H W W H W W H W W H W W H W W H W W H W W H W W H W W H W W H W W H W W M W M	WW- 40 10 10 10 10 10 10 10 10 10 10 10 10 10
140 E	2564 2564 2017 2017 2017 2017 2017 2017	2011 20 21 21 21 21 21 21 21 21 21 21 21 21 21	261 261 261 192 192 212	200 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2001 2001 2000 2000 2000 2000 2000 2000	MW 2 11 10 10 10 10 10 10 10 10 10 10 10 10
136 E	10000000000000000000000000000000000000	881 2 11 122 8 2 1 1 1 1 2 1 2 1 2 1 1 1 1 1 1 1	25 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25 25 25 25 25 25 25 25 25 25 25 25 25 2	200 - 200 -	MM
132 E	NWO 48-60-	00000000000000000000000000000000000000	884 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0004 0004 0004 0004 0004 0004 0004 000	881 8 11 880 88 88 8 880 98 88 88 88 88 88 88 88 88 88 88 88 88	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
128 E	000884900 0008804000	76251 76251 76351	09090000 100000 10000000000000000000000	NMI N 111 146400000000000000000000000000000000	MW 40 111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 00 00 00 00 00 00 00 00 00 00 00 00
124 E	10000 1000 1000 1000 1000 1000	WW 2 11 010 W 4 1 10 010 O 0 1 0 0 10 010 O 0 10 0 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	48084444444444444444444444444444444444	WW 0 	04000000000000000000000000000000000000
120 E	010 0 11 010 0 0 11 110 0 0 0 0 0 0 0 0	010 010 010 010 010 010 010 010 010	000 000 000 000 000 000 000 000 000 00	884 110 100 100 100 100 100 100 100 100 10	244800016 244800016 244800016	00000000000000000000000000000000000000
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BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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52	NA MHAH A	04 N P N O 0 0	250 250 328 328 328 261 1111 268 268	84 W-01 8	84 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20 812 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
8	04007000 044807000	7549m266	0142H2000	04000000000000000000000000000000000000	941-544568 808746808	0014446 0014446 0014446
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BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

STN

120 E	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	000 000 0000 0000 0000 0000 0000	200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 2 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	202 203 203 203 203 103 203 203
1 16 E	200 200 200 200 200 200 200 200 200 200	WW 2 11-W 000 WW 11-W 4004 WW 0 0 0	000 0 220 000 0 220 000 0 000 000 000 000 000	84048 348 84048 84	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200
112 E	### WW ### ############################	86 24 24 24 24 24 24 24 24 24 24 24 24 24	WW WW	000 000 000 000 000 000 000 000 000 00	Menale 2000 See 2000 Menale 20	nd
108 E	ES SELLE 1907 -	MU	W	242 242 242 243 243 243 243 243 243 243	20 08-40 200-10-40 500-10-60 500-60 500-60 500-60 500-60 500-60 50 50 50 50 50 50 50 50 50 50 50 50 50	84 - 84 - 84 - 84 - 84 - 84 - 84 - 84 -
104 E	80 - 80 - 80 - 80	WH WW WW WW W W W W W W W W W W W W W W	80 1400 601400 601400 601400 601400	244495 244495 344495 344495 344495 344495 344495 344495 344495	WW	0440-0404 0440-0404 0440-0404 0440-0404 0440-0404 0440-0404 0440-0404
100 E	201 201 400 400 400 400 400 400 400 400 400 4	23 20 60 132 140 140 140 140	200 200 200 200 200 200 200 200 200 200	200 200 200 400 400 400 400 400 400 400	22 20 20 20 20 20 20 20 20 20 20 20 20 2	80 00 00 00 00 00 00 00 00 00 00 00 00 0
96 E	20 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	22 20 20 20 20 20 20 20 20 20 20 20 20 2	23 28 28 31 31 31 31 31 31 31 31 31 31 31 31 31	84 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	80 80 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 4 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
92 E	000 0000000000000000000000000000000000	200 SELLE 200 SE	00 000 000 000 000 000 000 000 000 000	232 282 41122 3030 3030 3030 3030 3030 3030 3030	23 20 30 30 31 31 31 31 31	282 283 283 17 1465 336 336 336
88 E	200 NA	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ES SOUTE 1800 1800 1800 1800 1800 1800 1800 180	88 12 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22 22 22 22 22 22 22 22 22 22 22 22 22
84 E	21 90 044 31 90 044 31 90 044	2122 242 2122 2542 2122 2542 2122 2542	8444 8444 8644 86444 86444	00 00 00 00 00 00 00 00 00 00 00 00 00	84 84 84 84 84 84 84 84 84 84 84 84 84 8	842 842 866 866 866 866 866 866 866 866 866 86
90 E	01	2000 B	23 23 23 24 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	222 222 222 222 222 222 222 222 223 223	84 844 84 84 84 84 84 84 84 84 84 84 84	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
76 E	WW W-W-W W-W-W-W W-W-W-W-W-W-W-W-W-W-W-W	2000 000 000 000 000 000 000 000 000 00	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	222 222 222 222 223 223 233 233 233 233	10000000000000000000000000000000000000	M - NNU NU NU - M - M - M - M - M - M - M - M - M -
72 E	2000 BENERON 200 B	W W-W- W W W W W W W W W W W W W W W W	3124 3124 3134 3134 3134	8 1 1 2 2 4 6 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 18 18 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
68 E	200 200 200 300 300 300 300 300 300 300	04000000000000000000000000000000000000	30154880 30154880 30154880 30154880	200 200 300 300 300 300 300 300 300 300	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200
64	W	2508 2608 1278 39176 39176	200 200 200 200 200 200 200 200 200 200	00000000000000000000000000000000000000	00 00 00 00 00 00 00 00 00 00 00 00 00	M
60 F	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2007 2007 2007 2007 2007 2007 2007	WW W-31 W W W W W W W W W W W W W W W W W W W	00100000000000000000000000000000000000	04000000000000000000000000000000000000	0411255 0412
	<800M%41J	<8008MF61J	<800mm427	<8000MFG1J	<@UQWLUI7	<@U0MF@1J
	z	z	z	z	z	2
	•	9	295	25		:
	_	•	•	-	-	-

BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

STR

180 E	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	2212 6602 6606 6666 6666 6066 6066 6066	# - # # # # # # # # # # # # # # # # # #	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2011 2011 2011 2013 2013 2013
176 E	2002 2008 2008 243 2643 2643	25 25 25 25 25 25 25 25 25 25 25 25 25 2	22 28 28 28 28 28 28 28 28 28 28 28 28 2	352 137 203 203 561 561 561	2002 2002 2003 2003 2003 2003	35 1 1 2 9 9 3 1 2 9 9 1 1 2 9 9 1 1 1 2 9 9 1 1 1 1 1
172 E	m = 0 00 4 4688048 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22 24 35 55 55 55 55 55 55 55 55 55 55 55 55	250 133 151 150 150 150 150 150 150	25 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 200 200 200 200 200 200 200 200
168 €	2000 2000 2000 2000 2000 2000 2000 200	200 200 200 200 200 200 200 200 200 200	2000 2000 2000 2000 2000 2000 2000 200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22002 22002 23002 20002	0010 0010 00000 000000 0000000000000000
164 E	2001 2001 2001 2001 2001 2001 2001	200 20 10 10 10 10 10 10 10 10 10 10 10 10 10	88288888888888888888888888888888888888	00000000000000000000000000000000000000	######################################	00000 400004 400000 400000
160 E	2001 2001 2001 2001 2001 2001 2001	604400000 60440000000000000000000000000	2000 2000 2000 2000 2000 2000 2000 200	21 0 134 44-00644 44-008-450	MEL 8 -84 44-14-09-04-4 60-08-08-08-4	WWL WHEN 440400004 000844000
156 E	10000 10000 10000 10000 10000 10000 10000	2000 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	NN	440490844 440709740	MW- W
152 E	0001 0000 00000 00000 00000 00000 00000	011 20 12 12 12 12 12 12 12 12 12 12 12 12 12	20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	889 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	200 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WWW MH= W
148 E	NW4 64 64 64 64 64 64 64 64 64 64 64 64 64	2 1 2 2 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	840 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	884 88 88 88 88 88 88 88 88 88 88 88 88	2000 10 10 10 10 10 10 10 10 10 10 10 10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
144 E	840898048	201 20 10 10 10 10 10 10 10 10 10 10 10 10 10	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21 25 25 25 25 25 25 25 25 25 25 25 25 25	2	400 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
140 E	8000 N 1000 N 10	22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	22 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	800 800 800 800 800 800 800 800 800 800	64 6 48 6 48 6 6 6 6 6 6 6 6 6 6 6 6 6 6
.136 E	1000001 1000001 1000001 100001	2000 1000 1000 1000 1000 1000 1000 1000	25 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 00 100 00 00 00 00 00 00 00 00 00 00	2011999179	200 84 10 10 10 10 10 10 10 10 10 10 10 10 10
132 E	WW 4 WW WW W W W W W W W W W W W W W W	20 00 00 00 00 00 00 00 00 00 00 00 00 0	MW WW W	00 00 00 00 00 00 00 00 00 00 00 00 00	NW	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
128 E	200 200 200 200 200 200 200 200 200 200	329 317 324 345 171 101	2 448 1044 1044 104	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
124 E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20012 20012	200 200 200 200 200 200 200 200 200 200	888 88 88 88 88 88 88 88 88 88 88 88 88	WW 2 44 WW 66 WW 6	00000000000000000000000000000000000000
120 E	00000000000000000000000000000000000000	326 309 233 233 149 169 169 169	328 306 306 237 238 1159 2	22 230 230 230 230 230 230 230 230 230	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	20 20 20 20 20 20 20 20 20 20 20 20 20 2
	<8000MF01J	<000mF41J	<0000E9I7	<8000WL927	<800MF61J	<#U0WW.UZ7
	z	z	Z	z	z	z
	•	3	Š	8	•	‡

BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

	120 W	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 22 23 28 28 28 28 28 28 28 28 28 28 28 28 28	0 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	200 100 100 100 100 100 100 100 100 100	24462444444444444444444444444444444444	20 11 18 18 18 18 18 18 18 18 18 18 18 18
	124 W		255 12 255 12 256 14 256 14 256 15 256 15 256 15 256 15 256 15 25 25 25 25 25 25 25 25 25 25 25 25 25	2000 2000 2000 2000 2000 2000 2000 200	0 + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	000444000 000444000
	128 W	MN-W N HO-W N HO	// α α α α α α α α α α α α α α α α α α	2 W = 0 W =	0 m-0w 	20104000 201040000	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
	132 W	0 m = 0 m =	0 mlnw -04pmmm00 +04pmmmm	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 m = 0m - 00 m	85 H B L B B B B B B B B B B B B B B B B B	2012 2012 2012 2013 2013 2013 2013 2013
,	136 H	0 M-00 0 M-00 0 M-00 0 M-00	- 20 W -	0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	~ 6 p 4 0 m 0 m 3 √ 6 p 4 0 m 0 0 m 0 √ 6 p 4 0 m 0 0 m 0 0 m 0	040440000 0000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(9	22 22 22 22 22 22 22 22 22 22 22 22 22	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 B - 10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80044 80044 80044 80044 80044 80044 80044 80044 80044 80044 8004 8	2000 000 000 000 000 000 000 000 000
	144 1	20 00 00 00 00 00 00 00 00 00 00 00 00 0	2000-0400 0400 0400 0	0 0 → 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8014401 8014464 8014864	000444 000444 000444
	3 8 4 1	0000000 0000000 00000000 000000000	80000000000000000000000000000000000000	0 0 ~ 00 6 0 0 0 0 0 0 0 6 4 0 4 0 − 0 0 0 0	2002 2002 2002 2002 2002 2002 2002 200	2021 2021 2022 2022 2022 2022 2022 2022	20024 2004 2004 2004 2004 2004 2004 200
	152 ₩	2011 2011 2011 2011 2011 2011 2011 2011	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000 4000 0000 4000 0000 4000 1000	8083003 8083003 8083003	22 22 22 25 25 25 25 25 25 25 25 25 25 2	0 - 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	156 W	20120 20120	202094 40	400000000000000000000000000000000000000	40001000	00-12 00 00 00 00 00 00 00 00 00 00 00 00 00	4004E36
•	160	20100 20100 20100 20100 20100 20100 20100	2012 2012 2013 2013 2013 2013	120 120 120 120 120 120 120 120 120 120	128 128 128 128 17	180086000 18108444 180086000	400004550 400004550 400004500
;	164 ■	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- 000000000000000000000000000000000000	12010 12010 12010 1200 1200 1200 1200 1	40000000 40000000000000000000000000000	12010 12010 12010 12010 12010 12010	464446 464466 4660 4660 4660
	168 ₩	6 1 04 04 04 04 04 04 04 04 04 04 04 04 04	W = W= W = W = W = W = W = W = W = W =	2012 34 44 44 44 44 44 44 44 44 44 44 44 44	80100000000000000000000000000000000000	00 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W
	172 W	8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -	20112 20112 20112 20112 20112 20112	201243248 701243248 701243248	000000 000000 000000 000000	88.04.461.96 88.04.461.96 88.04.461.96	80000000000000000000000000000000000000
	176 #	u - u-uu 60000000000000000000000000000000000	0000 + 0000 0000 + 0000 0000 + 0000	82 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000000000000000000000000000000000000	00 40 00 00 00 00 00 00 00 00 00 00 00 0	00000000000000000000000000000000000000
;	100 K	u	W = W = W = W = W = W = W = W = W = W =	00000000000000000000000000000000000000	W = 0 = 00 W = 0 + 00 W = 0 + 00 W = 000 W = 000 W = 000 W = 00 W = 000 W = 00 W = 00 W = 00 W = 00 W = 00	800048000 8000480000	00000000000000000000000000000000000000
STR		<8000MF013	<我いの他にひごう	<8000WkGI7	<草心の出生なごう	<昔いりお下のこと	48UQWLUI7
LAT		<i>z</i> •	Z •0 m	Z N M	Z 0 N	2 2	2 0 0

BEARINGS TO DWEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

STR

₩ 09	22 1 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1401 UND 1000 000 000 000 000 000 000 000 000 0	200 - 200 -	182 182 182 183 183 183 183 183 183 183 183 183 183	0164W9W9W9W9W
*	1466840 1466840 1466840		100 100 100 100 100 100 100 100 100 100	2000 1981 2000 1984 2014 1980	14 × 00 × 00 × 00 × 00 × 00 × 00 × 00 ×	6491211148 647867860 14711111
89	2562 2967 1766 1766 167 167	1000 0000 0000 0000 0000 0000 0000 000	1028 3283 3283 3284 1685 1685 1685 1685 1685 1685 1685 1685	2000 3000 3000 3000 3000 1000 1000 1000	00000 1001 00000 1000 00000 1000 00000 1000	641804055 641804055
72 W	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1325 1325 1345 1545 157 157 157 157 157 157 157 157 157 15	100 100 100 100 100 100 100 100 100 100	00 00 00 00 00 00 00 00 00 00 00 00 00	200 200 200 200 200 100 100 100 100 100	200 200 200 200 200 200 200 200 200 200
76 ₩	2000 1325 1535 1535 1535 1535 1535 1535 1535	1000 1000 1000 1000 1000 1000 1000 100	13242 1442 1453 1453 1453 1453 1453 1453 1453 1453	94755566 9475556666666666666666666666666666666666	3244 324 324 132 132 132 132 132	264100825 132100825
3	28 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2222011 132201311 1422201311	226 226 328 326 132 132 132 132 132	1921 98 98 98 98 98 98 98 98 98 98 98 98 98	200 - 200 -	2000 2000 2000 11000 11000 11000
7	1801 180 180 180 180 180 180 180 180 180 180	13256 13256 13216 13216 13216 13216 13216	1866 W + 186 1866 W + 186 18	1021 00 104568000 1045682000	1900 1900 1900 1900 1900 1900 1900 1900	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
88	132530 132530 132530 132530 132530	22 22 22 22 22 22 22 22 22 22 22 22 22	00 M	132 32 50 132 4 50 132 4 50 132 50 13	00000000000000000000000000000000000000	02000000000000000000000000000000000000
92	2002 2002 2002 2002 2002 2002 2003 2003	22 25 25 25 25 25 25 25 25 25 25 25 25 2	2001 2001 2001 2000 2000 2000 2000 2000	088489481 460440488	32888 3488 3488 1088 1088 1088 1088 1088 1088 1088 1	00000000000000000000000000000000000000
3	1801 80 80 80 80 80 80 80 80 80 80 80 80 80	132 138 138 138 138 138 138 138 138 138 138	2000 2000 2000 2000 2000 2000 2000 200	1321 32 1321 353 1321 353 131 37 153 131 37 153 153 153 153 153 153 153 153 153 153	328 328 328 323 108 108 108 108 108	1373 37 37 37 37 37 37 37 37 37 37 37 37
100	2010 2010 2010 2010 2010 2010 2010 2010	18688 1888 1888 1888 1888 1888 1888 188	2007 2007 2007 2007 2007 2007 2007 2007	000-56465 000-56465 000-56465	2782 2782 1028 1030	000 000 0100 0100 000 000 000 000
104	200 200 1145 1145 1145 1145 1145 1145 1145 11	100 00 00 00 00 00 00 00 00 00 00 00 00	0000 0000 0000 0000 0000 0000 0000	01000000000000000000000000000000000000	2,482 1,482	200 000 0-00
108 W	2662 2662 2662 2663 2663 2663 2663 2663	0 1 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0.000 0.000 0.000 0.000 0.000 0.000	200 200 200 200 200 200 200 200 200 200	017120 013401410 013401410	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
112 W	00000000000000000000000000000000000000	00000000000000000000000000000000000000	00124 00144 00146 00146 00146 00146 00146 00146	27.70 27.70 13.74 10.04	2000 1000 1000 1000 1000 1000 1000 1000	2000 2000 2000 2000 2000 2000 2000 200
116 W	014400550 014400550 01050	01000000000000000000000000000000000000	0 100 100 100 100 100 100 100 100 100 1	20000000000000000000000000000000000000	22 - 22 - 22 - 22 - 22 - 22 - 22 - 22	00000000000000000000000000000000000000
120 W	00000000000000000000000000000000000000	251 251 251 251 251 251 251 251 251 251	200 200 200 200 200 200 200 200 200 200	2 117 2 117 2 118 2 118 2 118 3 118	212 272 2011 2010 2012 2010 2012 2010	
	<800WLUI7	<000MF01J	<#U0WL#17	<0000WLUI7	<800MF61J	<0000LG17
	z •	z 9	Z 20 60	28 2	# *	2 0

BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

•	223 223 223 223 233 233 260	28 m m m m m m m m m m m m m m m m m m m	00000000000000000000000000000000000000	283 283 283 283 283 283 283 283 283 283	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	24004400
4	40000000000000000000000000000000000000	20000000000000000000000000000000000000	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 122 120 10 10 10 10 10 10 10 10 10 10 10 10 10	00000000000000000000000000000000000000
3	2000000 200000000000000000000000000000		0 - 10 - 40 - 40 - 40 - 40 - 40 - 40 - 4	2 12 12 12 12 12 12 12 12 12 12 12 12 12	- B B B B B B B B B B B B B B B B B B B	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
12 ₩	226 326 326 307 2120 216 250	2 315 2 315	2 324 2 324 2 32 2 32 2 56	2 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	46-69-69-69-69-69-69-69-69-69-69-69-69-69	0 440 6 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
16 W	01300 0100 0100 0100 0100 0100 0100 0100 0100 01000 01000 01000 01000 0100 01000 01000 01000 01000 01000 01000 01000 01000 01000 010	2008 2008 2008 2008 2008	2500 2500 2500 2500 2500 2500 2500	117 117 111 111 121 131 131 131	0 0 0 4 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20000000000000000000000000000000000000
¥ 50	0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	2011 2011 2011 2011 2011 2011 2011 2011	200 200 200 200 200 200 200 200 200 200	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.000000000000000000000000000000000000	######################################
24 W	2010 2010 2010 2010 2010 2010 2010 2010	4480HOSS4		10000000000000000000000000000000000000		
28 ₩	200003 200003 200003 200003 200003	230 230 230 230 230 230 230 230 230 230	2411 2011 1001 1000 243 243	2 1200 1200 1200 1200 140 140 140 140 140 140 140 140 140 1	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200
32 #	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 100 4 20 20 20 20 20 20 20 20 20 20 20 20 20	2 1200 1200 1200 1200 1200 1300 1300 1300	244 200 100 170 170 170 170 170 170 170 170 1	211 306 311 110 205 177 250	0 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
36	50000000000000000000000000000000000000	2201 2201 2201 2201 2201 2201 2201	4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000000000000000000000000000000000000	MUNUMU 0	847466466666666666666666666666666666666
9	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	000004 0000000000000000000000000000000	2 1106 3037 1066 1066 2299 2299	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0-000014 0-000014 0000010
*	200000 200000 200000 200000 200000	1 8400000 1 8400000 1 84000000	221 2301 3301 104 196 231 221	2000 2000 2000 2000 2000 2000 2000 200	4400000 C	2 000-000 000-000 004-1000
40	20021 20031 20031 20031 20031	00000000000000000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 2000 2000 2000 2000 2000 2000 200	75 B 35 B 5 B 5 B 5 B 5 B 5 B 5 B 5 B 5 B	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
52.2	2000 2000 1000 1000 1000 1000	2020 2020 2020 2020 2020 2020 2020 202	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000000000000000000000000000000000000	2002000 2002000 200404040 200404040	001-1000 001-1000 001-1000 001-1000
36 H	1881 886 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1400 1401 01000 1400 11400 1400	1901190190190190190190190190190190190190	04440 040 040 040 040 040 040 040 040 0	000-00000 000-00000 1474-001
809	1400 1400 1400 1400	0100 1001 01000000000000000000000000000	100 100 100 100 100 100 100 100 100 100	40000 6646600 66666000	1000 1000 1000 1000 1000 1000 1000 100	1920 1920 1920 1920 1920 1920 1920
	<800mm61J	<0000MF61J	<800mm61J	<8000mm613	<取り口を下さま 」	<800MF61J
	Z	z	z	Z	Z	2
	•	8	CI E	8	*	2

BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

B	B 201 200 214 C 313 316 214 D 313 316 317 F 128 131 137 F 108 131 137 G 40 42 45 J 262 264 267	A 203 211 218 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A 207 215 223 C 334 339 339 329 339 D 315 316 316 E 126 129 1318 F 122 123 1318 G 119 119 225 J 266 228 J 266 229 158	A 212 223 223 223 223 223 222 222 223 223	A 2019 228 239 239 239 239 239 239 239 239 239 239
22 22 22 22 22 22 22 22 22 22 22 22 22	00000000000000000000000000000000000000	20 4 31 51 51 52 52 52 52 52 52 52 52 52 52 52 52 52	200 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.8 22.1 22.1 33.3 33.4 34.7 31.6 22.2 22.3 22.3 13.4 22.6 12.4 12.5 2.6 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	19 22 8 23 16 22 8 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
64444444444444444444444444444444444444	+ 808-8084 0+ 008- 0 0	6 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	00000000000000000000000000000000000000	25 23 34 34 35 35 35 35 35 35 35 35 35 35 35 35 35	22 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
M — M M M — M M	2 100 100 100 100 100 100 100 100 100 10	~4~MM~44	2 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	こくしょここくんて	ちゅうころにゅ ア
6410000011 F	0 + 10 1 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	245 123 123 124 124 124 124 124 124 124 124 124 124	24-189-189-189-189-189-189-189-189-189-189	2 + 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	44000046 44000046 1140000086
1 - WE WE WE COMPA	0 -00-00000000000000000000000000000000	00000000000000000000000000000000000000	24-24-24-24-24-24-24-24-24-24-24-24-24-2	2452425 2452425 2452425 24125 25125	0 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
4 - 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-	2 - 2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	20000000000000000000000000000000000000	20000000000000000000000000000000000000	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 000 000 000 000 000 000 000 000 000	200 200 200 200 200 200 200 200 200 200	20 10 10 10 10 10 10 10 10 10 10 10 10 10	2011 20 20 20 20 20 20 20 20 20 20 20 20 20	20040 000 20040 000 20040 000
0 44 04 04 04 04 04 04 04 04 04 04 04 04	200 100 000 000 000 000 000 000 000 000	255 255 255 255 255 255 255	235 24 24 24 24 25 25 25	200 400 000 000 000 000 000 000 000 000	™ № № № № № № № № № № № № № № № № № № №
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	23 23 23 23 23 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	20 20 20 20 20 20 20 20 20 20 20 20 20 2	#4 # #4 # # # # # # # # # # # # # # # #
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84 E	0450 5420 5420 5420 5420 5420 5420 5420	23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	232 278 231 231 313 317	23 23 23 23 23 24 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	24 122 E 23 E 24 E 24 E 24 E 24 E 24 E 24 E	20 12 24 24 24 24 24 24 24 24 24 24 24 24 24
80 E	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	245 275 205 205 205 144 177 174 15	22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	8 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	84 + 80 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	00-40-00-00-00-00-00-00-00-00-00-00-00-0
76 E	2022 2025 1022 1022 1031 1031 1031 1031 1031 1031	231 243 245 1345 135 135 135 135 135 135 135 135 135 13	22 22 24 24 24 24 24 24 24 24 24 24 24 2	84 44 84 84 84 84 84 84 84 84 84 84 84 8	84 88 88 88 88 88 88 88 88 88 88 88 88 8	# = # N N M N M M M M M M M M M M M M M M M
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60 E	200 100 100 100 100 100 100 100 100 100	MU W-U-U WOW404 WOW404 W4005M400	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2002 2002 2002 2003 2003 2003 2003	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

180 E	2011 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2012 2014 2014 2016 2016 2016 2016	2000 0000 0000 0000 0000 0000	W = 0 = 00 W = 0 + 00 W = 0 + 00 W = 0 + 00 W = 000 W =	80000000000000000000000000000000000000	W
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156 E	24-04-04-44-04-44-04-44-44-44-44-44-44-44	2440 440 440 440 440 440 440 440 440 440	MW	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WW SIIW 4W84WW808 684840811	WW WHIW
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144 E	200 000 000 000 000 000 000 000 000 000	2008 2008 2008 3008 3008 3008 3008	400m001=0 400m007=0 400m404	40 40 40 40 40 40 40 40 40 40 40 40 40 4	41 25 25 24 24 24 24 24 24 24 24 24 24 24 24 24	UN 0-1-W 4WU4
140 E	84 20 11 20 10 10 10 10 10 10 10 10 10 10 10 10 10	200 200 200 200 200 200 200 200 200 200	UN	WW	88 24 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	WW
136 E	80000000000000000000000000000000000000	23 25 25 25 25 25 25 25 25 25 25 25 25 25	88 84 88 88 88 88 88 88 88 88 88 88 88 8	WW WHIN 020477110	88 84 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	WW
132 E	EEE 2112 F1864011 F4864011	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	88 84 88 88 88 88 88 88 88 88 88 88 88 8	BB 4444 BOCE44440 BBBBBBCCC-	800 200 800 200 800 200 800 200 800 800 800 800	86 84 88 88 88 88 88 88 88 88 88 88 88 88
128 E	333 333 341 341 351 351 351 351 351	20 80 80 80 80 80 80 80 80 80 80 80 80 80	200 200 100 100 100 100 100 100	WW SIII WOFW4441 8470W840R	333 302 302 30 104 164 164 164	80 414 804 804 804 804 804 804 804 804
124 E	200 200 200 200 200 200 200 200 200 200	867 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	20 1 1 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 20 20 20 20 20 20 20 20 20 20 20 20 2	200 106 106 108 108 108 108 108 108 108 108 108 108	80 241 807 241 807 840 808 840 71
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124 W	00111 00 00 00 00 00 00 00 00 00 00 00 0	200 200 200 200 200 200 200 200 200 200	296 296 172 173 193 193 195 196 196 196 196 196 196 196 196 196 196	300 1 200 1	200 1 1 2 0 0 0 1 1 2 0 0 0 1 1 2 0 0 0 0	1005 1005 1005 1005 1005 1005 1005
128 W	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2000 2000 2000 2000 2000 2000 2000 200	385 100 100 100 100 100 100 100 100 100 10	309 309 309 309 309 78	3011 3 3011 3 3
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176 #	M	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	W 410W 88444W10V 884WF488V	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	004H-40H-00
180 ₩	M	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WW. 40 4 10 4 10 4 10 4 10 4 10 4 10 4 10	W 444W 117	W	W 010W
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	16 W	2000000 2000000 404460000	2 1211111 2 1511111111111111111111111111	2 12111001 2 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1200 121 121 121 130 130 130 130 130 130 130 130 130 13	5 1013 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	04501140 04501140 0450114010
	50 ₩	12000 10000 1000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1	2 10 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	100 100 100 100 100 100 100 100 100 100	236 236 236 236 236	2001177229 2001177229 20059
	24 €	2008 2008 2008 2008 2008 2008 2008 2008	70000000000000000000000000000000000000	7099B00400	2010 2010 2010 2010 2010 2010 2010 2010	1465-14665 646-14665 746-14665 746-14665 746-14665 746-14665 746-14665	2 - 12 - 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	36 W	2008 3008 3008 1000 1000 1000 1000 1000 1	2001 2001 2001 2001 2004 2004 2004 2004	2185118900 4185118900	2 1891 1891 1894 1898 1898	2 12 13 13 13 13 13 13 13 13 13 13 13 13 13	0530=1366 0530=1366 3 1515 3 1515 3 1515
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	25 €	2001-190 201-201-200 201-201-200 201-201-200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2300 2300 2300 2300 2300 2300 2300 2300	6842178988 68641189888 6864118	00000000000000000000000000000000000000	181841-61 1809-19041 1809-19041
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56 E	2011 2011 2011 2010 2011 2011	84 8 - 10 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	WG WIGH G 464400000 WWBO-50000	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 10 10 10 10 10 10 10 10 10 10 10 10 10	# # # # # # # # # # # # # # # # # # #
52 E	2 12 12 24 24 24 24 24 24 24 24 24 24 24 24 24	2011 2014 2014 2014 2014 2014 2014	60 W-01 0	######################################	80 8-121 0 4787-128 878-1488	20 20 20 20 20 20 20 20 20 20 20 20 20 2
48 E	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	245 275 270 228 228 271 285 285	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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40 E	200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 200 200 200 200 200 200 200 200	244 244 255 255 255 255 255 255 255 255	20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	20000000000000000000000000000000000000	84 84 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
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28 E	88 646 688 688 688 688 688 688 688 688 6	0	85 W W W W W W W W W W W W W W W W W W W	00 mm on 000 mm on 00	881 W 101 0 101 W 100 0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
24 E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25 25 25 25 25 25 25 25 25 25 25 25 25 2	0 = 0 = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	00 0000 00 000 00 00 00 00 00 00 00 00	
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BEARINGS TO DWEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

120 E	80 001 80 001 80 000 80 000 8000 80 000 80 000 8000 80 000 80 000 80 000 80 000 80 000 80 000 80 000 80 000 80 000	800 00111 1807 00111 1808 00111	80 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	WU ULL WB004+21 FU0004+020	WW WW WW WW WW WW W W W W W W W W W W	200 0000 200 0000 200 0000 200 0000
116 E	200 00 00 00 00 00 00 00 00 00 00 00 00	200 100 100 100 100 100 100 100 100 100	2837 2837 2843 1748 3833 3833	88 20 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000 00 00 00 00 00 00 00 00 00 00 00 00	M 144 W 444
112 E	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WW GTTT W W W W W W W W W W W W W W W W	NO 011 N 080 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 200 200 200 200 200 200 200 200	00 000 000 000 000 000 000 000 000 000
108 E	24 - 112 88 88 88 88 88 88 88 88 88 88 88 88 88	283 283 283 283 283 283 283 283 283 283	233 261 261 245 333 343 345 345 345 345 345 345 345 3	8	233 277 277 288 188 316	00044F0004
104 E	2836 284 641 1944 346 346	24 - 112 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80 211 8 80 211 8 90 20 21 8 90 20 20 20 20 20 20 20 20 20 20 20 20 20	0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82 8211 8 87 80 40 8 8 0 87 80 8 1 1 6 8 7	N N N N N N N N N N N N N N N N N N
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92 E	2335 2225 2225 311 138 14	23.25 24.50 20.20 20.00	23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	233 234 234 234 294 294 294 294	24 - 22 - 24 - 24 - 24 - 24 - 24 - 24 -	233 233 233 233 233 233 233
88 E	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	200 54 E E E E E E E E E E E E E E E E E E	245 201 201 201 201 201 201 201 201	244 244 244 244 244 244 244	200 000 000 000 000 000 000 000 000 000
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76 E	2000 E 20	2 - 182 a 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 - 22 - 23 - 24 - 24 - 24 - 24 - 24 - 2	2 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	MU MUNIC N WF-98 WIN - N WF-98 WIN - N	00000000000000000000000000000000000000
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180 E	801040000 400000 40000000000000000000000	40100 4000 4	W	84444444444444444444444444444444444444	W	W W W W W W W W W W W W W W W W W W W
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172 E	0	M 01-0W 0 040M000 08804W4480	88 84 88 88 88 88 88 88 88 88 88 88 88 8	W W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W	8000448012 1000448012 100448004	N N N N N N N N N N N N N N N N N N N
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164 E	MW	84 40 40 40 40 40 40 40 40 40 40 40 40 40	₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩	00000000000000000000000000000000000000	### ##################################	WU UNUN 40044400F 6444FUUMO
160 E	MW WWW WWW WW	484 484 484 484 484 484 484 484 484 484	444 81114 444 84114 444 844 644 844 844 844 84	41124 41144 41144 4114 4114 4114 4114 4	######################################	WU 4111W 4884449W 4448449W
156 E	### ##################################	00 000 000 000 000 000 000 000 000	64484848 648484848 64864848	NM	80-800-FB	00000000000000000000000000000000000000
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148 É	441 44144 441 4444444444444444444444444	400 4118 400 4118 600 4118 611 418	WW 01110 400484848 UWGGGATG	WW WHILE 4004448WA WWW OOBSTERN	400 444 60 60 60 60 60 60 60 60 60 60 60 60 60	245 245 245 245 245 245 25 25 25 25 25 25 25 25 25 25 25 25 25
144 E	######################################	WW WITH WA 40 + W 40 +	80 400 400 80 80 80 80 80 80 80 80 80 80 80 80 8	245 245 245 245 245 245 245 245	#80 84 - 48 484 - 487 - 48 8480 6880 98	00 00 00 00 00 00 00 00 00 00 00 00 00
140 E		UM 01114 407448714 1110740064	24 44 44 44 44 44 44 44 44 44 44 44 44 4	20 40 40 40 40 40 40 40 40 40 40 40 40 40	######################################	24 24 24 24 24 24 24 24 24 24 24 24 24 2
136 E	WW SILE 0407 W487 FW 04487 FW	00 0110 000 0110 000 0100 000 0100	000 0000 000 000 000 000 000 000 000 0	82 84 84 84 84 84 84 84 84 84 84 84 84 84	80 81-18 48484848 611-8864-18	ud 0
132 €	80 0000 80 000 90 000 90 000 90 000 90 000	W	8004 8004 8004 8004 8004 8004 8004 8004	80 80 80 80 80 80 80 80 80 80 80 80 80 8	00000000000000000000000000000000000000	WW WITH WY W W W W W W W W W W W W W W W W W W
128 E	200 200 200 200 200 200 200 200 200 200	82 83 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2000 000 000 000 000 000 000 000 000 00	84 44 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	WK KITT WE OW 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	200 200 200 200 200 200 200 200 200 200
124 E	80 00000000000000000000000000000000000	801045814 801045814	890-856- 800-856- 800-800-800-800-800-800-800-800-800-80	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80 80 80 80 80 80 80 80 80 80 80 80 80 8	200 401 10 10 10 10 10 10 10 10 10 10 10 10 1
120 E	80 0111 80 0111 80 04 04 05 05 05 05 05 05 05 05 05 05 05 05 05	NO 000000000000000000000000000000000000	100 000 000 000 000 000 000 000 000 000	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 000 000 000 000 000 000 000 000 000
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132 W	4624466085	20000000000000000000000000000000000000	W 114WW 10000WW0 10000WW0 114W4	1000 1000 1000 1000 1000 1000	32 23 24 24 24 24 24 24 24 24 24 24 24 24 24	10000000000000000000000000000000000000
136 W	46 Number 46 Num	4000 0000 0000 0000 0000 0000 0000 000	2000 1100 1000 100 1000 1000 100 1000	3000000 3000000 400000000	100000 100000 1000000 1000000000000000	40000000000000000000000000000000000000
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144	GGBBGBGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	MN M M M M M M M M M M M M M M M M M M	2000 1000 1000 1000 1000 1000 1000	74660102 74660102 74660102	4404844 4040046 4040046	104 010 010 010 010 010 010 010 010 010
148	W W-W W W W W W W W W W W W W W W W W W	0 4 4 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	100 mm 10	100 m	12 01 01 01 01 01 01 01 01 01 01 01 01 01
152 #	40000000000000000000000000000000000000	2000 2000 2000 2000 2000 2000 2000 200	800 800 800 800 800 800 800		- E	
156 W	8010000 0000000000000000000000000000000	800 M M M M M M M M M M M M M M M M M M	112 212 22 22 22 22 22 22 22 22 22 22 22	200 200 200 200 200 200 200 200 200 200	351 351 112 123 130 130 130 130 130 130 130 130 130 13	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
160 W	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 34 48 48 48 48 48 48 48 48 48 48 48 48 48	- 4 m a 4 m b c s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 6 4 6 4 6 4 6 4 6 4 6 6 6 6 6 6 6 6	12 12 12 12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15
164 W	42-10 42-10 10-14	1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 H 20 H	4 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	1 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
168 W	80 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	132 123 122 123 132 123 132 133 133 13	82 - 22 - 23 - 23 - 23 - 23 - 23 - 23 -	81 4088 81148849 88468	82124218 82124218 821488 84448 8448 8448 84448 84448 84448 84448 84448 84448 84448 84448 84448 84448 8448 84448 84448 84448 84448 84448 84448 84448 84448 84448 84448 8446	012122 01212 01212 01212 01212
172 W	80 24 20 20 20 20 20 20 20 20 20 20 20 20 20	201 201 200 200 200 200 200 200 200 200	136 116 128 123 123 133 133 133 133 133 133 133 133	138 128 128 128 128 128 128 128 128 128 12	25 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -	12 4 12 4 12 4 12 4 12 4 12 4 12 4 12 4
176 W	80m4mma-6	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	255 255 255 255 255 256 256 256 256 256	87 - 01 - 00 - 00 - 00 - 00 - 00 - 00 - 0	80 40 40 40 40 40 40 40 40 40 40 40 40 40	81 8188 8484848 881417178
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	<8000Mf61J	<840mm613	<0000WE4I7	<0000Wk917	<6000mr417	<800MF61J
	w	v	vs	s	ø	w
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BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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# 4 9	22 22 22 33 33 51 51 51 51 51 51 51 51 51	0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.	3000000 300000000000000000000000000000	4000mmdes	40000000000000000000000000000000000000	00000000000000000000000000000000000000
89	22 783 22 783 33 75 96 96 96 96 96 96 96 96 96 96 96 96 96	22 72 72 72 72 72 72 72 72 72 72 72 72 7	12000 1200 1200 1200 1400 1400 1400	41088114 110488114 110488114	00000000000000000000000000000000000000	000000000 -0010000 -0010000000000000000
72 #	22 22 22 22 22 22 22 22 22 22 22 22 22	321138 321408 321408 334408 334408 334408	00-1-00 00-00-00 00-00-00 00-00-00 00-00-00 00-00-	35 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	22 22 22 22 22 22 22 22 22 22 22 22 22	22242 2224 2224 2226 2226 2226 2226 222
¥ 92	80442000 80442000 80442000	405040 40040 4006 4006 4006 4006 4006 40	0200040 0200040 0200040 0400040	00000000000000000000000000000000000000	00011000 0001000 0001000 0001000	22 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
æ 00	325245530 4590004	22 22 22 22 22 22 22 22 22 22 22 22 22	25 25 25 346 311 311 35 35	22 72 74 346 113 30 30 30 30	22 22 22 22 22 22 22 22 22 22 22 22 22	22 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
*	321132 32234 312334 516234 516234 516234 516234 516234 516234	080404000 4000404000 40000000000	400 400 400 400 400 400 400 400 400 400	300 + 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200-1-100 200-1-200 200-1-	22 23 25 25 25 25 25 25 25 25 25 25 25 25 25
₩ 99	323493288 32349352 55334935	22222222 3222222 50	22 22 22 32 30 46 46 46	400-57-20-55-40-55-50-55-50-55-50-55-50-55-50-55-50-55-50-55-50-55-50-50	2011 2011 2011 2011 2011 2011 2011 2011	2200 200 200 200 200 200 200 200 200 20
M 26	90-22-32-695 30-23-32-695 30-23-32-695 30-23-32-695	22 22 32 32 32 34 35 45 35 45 45 45 45 45 45 45 45 45 45 45 45 45	08811108 088844008 41888888000	41.42055925	0.000 0.000	2011 2011 2013 2013 2013 2013 2013 2013
# 96	300 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	00000000000000000000000000000000000000	##08888## ##08888##	MW-1-WW WOWW WOWW WOWW WOWW WOWW WOWW WOW	WW40 W W C C C C C C C C C C C C C C C C C C	0 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4
# 00 I	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	M40-W4F8-	4441 30 V W V V V V V V V V V V V V V V V V V	440 080 800 080 800 080 800 080	200 000 000 000 000 000 000 000 000 000	200 200 4 200 200 4 200 20 10 4 7
H 401	44088886647 60444 0882 60844 0882	8088 8088 8088 8088 8088 8088 8088 808	000000 00000 00000 00000	200 - 11 00 00 00 00 00 00 00 00 00 00 00 00	20011 20014 20014 20014 20014	200 4 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
M 801	000 H 4 50 000 000 000 000 000 000 000 000 00	M M	300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2223 2233 2233 2233 2233 2233 2233 223	2000 1 1 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	00000000000000000000000000000000000000
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# 96	8811188 8884888 948888 9448888	0048004444 0048004444	2000 4400 4400 4400 4400 4400 4400 4400	22 - 1888 8472 8472 8472 8472 8472 8472 8472 8	456426586644466466466466466466466646666666666	00000000000000000000000000000000000000
300 E	0800 0800 0800 0849 0849 0849 0849	2000 2000 2000 2000 2000 2000 2000 200	3083 2005 2005 2005 44	22205 42205 4237 4237 4237	3083 2083 4688 1985 1985 1985	000 1 000 000 1 000 000 1 000 000 1 000 000 1 000
104	300 300 300 1127 2221 2221 500 51	0880 HINN 0880 RI-1884 0784 88686	22298 4 22298 4 22298 7 22398	W	22 98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 1 00 400 00 400 00 400 400 400 400 400 40
108 W	250011 260011 260011	20 1 1 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2211 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	# # # # # # # # # # # # # # # # # # #	200 100 100 100 100 100 100 100 100 100	40 1 1 00 00 00 00 00 00 00 00 00 00 00 0
112 W	6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	80 00 00 00 00 00 00 00 00 00 00 00 00 0	60 E E E E E E E E E E E E E E E E E E E	40 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
116 W	りとをこのでくをの うのをフォートのア アファー を	844404404	00000000000000000000000000000000000000	8001-1-000 8001-1-000	8081101000 8081101000	040 1111 120 120 120 130 130 130
120 W	2021 2021 2021 2021 2021 2021 2021	200 100 100 100 100 100 100 100 100 100	2002 2002 2002 2003 2003 2003 2003 2003	0000000000000000000000000000000000000		
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	ss N	vi v	v 0	vi ◆	v)	8 8
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BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

STN

0	8400 WWW WWW WWW WWW WWW WWW WWW WWW WWW	N	2000 NE 00 00 00 00 00 00 00 00 00 00 00 00 00	00000000000000000000000000000000000000	912131546 602151546 602161546	2 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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12 #	1 2 4 4 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5-64-69 6-64-6	00000000000000000000000000000000000000	- 400 00 m	910 17 00 00 00 00 00 00 00 00 00 00 00 00 00	4248694 = 000
16 €	12 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 46 4 4 4 4 6 6 6 6 4 4 4 4 4 4 4 4 4 4	00400040 -0050-00 -0050-00	12 32 47 7 7 1 1 1 6 7 4 7 4 7 4 1 1 6 7 4 1 1 6 7 4 1 1 6 7 1 1 6 7 1 1 1 1 1 1 1 1 1 1 1 1	2000000 200000000000000000000000000000	110000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
20 M	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +	128 W W W W W W W W W W W W W W W W W W W	2100522222 2010052222	30000 30000 30000 30000 30000 30000 30000 30000	1126.00 MIII 1176.00 MIII 1170.00 MIII
24 W	174001010 1740017114 17400177114	864576495	464-05-95 -9450-5-1 -9450-5-1	21-22-02-02-02-02-03-03-03-03-03-03-03-03-03-03-03-03-03-	32 32 32 32 32 32 32 32 32 32 32 32 32 3	######################################
28 ¥	1265 1769 1769 1769 1769	98654865656565656565656565656565656565656	3512 3512 3512 3512 3512 3512 3512 3512	22 22 22 22 22 22 22 22 22 22 22 22 22	2000402 2000417 2000417	3222 3222 323 323 425 425 425 425 425 425 425 425 425 425
32	1200000 1000000 10000000000000000000000	3 2 3 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$442545666	6790-48020 27460-480 27460-480-780	77000000000000000000000000000000000000	22 22 22 22 22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24
36	0 10 10 10 10 10 10 10 10 10 10 10 10 10	12000000000000000000000000000000000000	19 19 19 19 19 19 19 19 19	011200 01200 01200 01200 01200 01200	2010 2010 2010 2010 2010 2010 2010 2010	22 23 25 25 25 25 25 25 25 25 25 25 25 25 25
0	100 100 100 100 100 100 100 100 100 100	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	31122 31122 31183 31186 3196 3196	8654984665	465662642 465662642 665662642	325333 325333 325333 325333 325333
*	224 224 230 230 230 336 336	21122 2122 2122 200 200 200 200 200 200	31122 3122 3132 3132 3132 3132 3132 313	41-12-12-12-12-12-12-12-12-12-12-12-12-12	020112112 0201120 0201120 0201120 0201120	M==0=00 46.040 40.04
80	1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	922428 922428 922428 922428	450000 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	44004000000000000000000000000000000000	M-12647126 612647126 612647126	84400 4400 4400 4400 4400 4400 4400 440
52 W	2001 2001 2001 2001 2001 2001 2001 2001	2002 2002 2003 2003 2003 2003 2003 2003	30000000000000000000000000000000000000	44811408 44811408 44811408	465 93 4 66 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
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	<8000mr61J	<#U0mm@17	< ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	₹₫∪ Ω₩ Ľ ℧エフ	<取りりまれること	<0000mr@13
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BEARINGS TO ONEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

	60 E	2 2 3 2 3 2 4 2 2 3 3 3 3 3 3 3 3 3 3 3	W4-WWW-WWW-WW-WW-WW-WW-W-W-W-W-W-W-W-W-	2 12 14 4 9 9 9 8 8 2 1 1 1 4 4 9 9 9 8 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 - 10 40 - 10 40 - 10 40 - 10 40 - 10 40 - 10 40 40 + 10 40 +	00000000000000000000000000000000000000	~~~~~~~~ 20~~~~ 20~~~~ 20~~~ 20~~~
	56 E	001889999999999999999999999999999999999	8818881 8 880881888 88888888888888888888	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WW-WWW- W 40W-WW-WW WW-WW-WW	######################################
	52 E	WULW 01 0 4001-0000 8-410104F	2011 01 0 4010 01 0 4010 01 01 0 6010 01 01 01 01 01 01 01 01 01 01 01 01	881 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8488 4488 8488 4488 841846	M
	48 E	######################################	246 246 3118 3118 3118 3118 3118 3118 3118 311	2 12 24 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 12 2 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 -12 2-12 6622-7394 6623-736 6633-736 6633-736	2 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	44 E	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	2 12 31 24 24 24 24 24 24 24 24 24 24 24 24 24	2 = 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	261 201 201 201 201 201 201 201 201 201 20	2013 2013 2013 2013 2013 2013 2013 2013	0047444 0047444 0047444
	40 E	8018 01 0 60108080 60108080 801080	349 128 302 122 130 272	2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	64-64-64-64-64-64-64-64-64-64-64-64-64-6	00000000000000000000000000000000000000	244 244 244 264 264 264 264 264 264 264
	36 E	8 - BR GRARI 16 - BR GRARI 18 - BR GRARI	14 + - HB 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8004040000 C	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 12 25 25 25 25 25 25 25 25 25 25 25 25 25	2 190 M
	32 E	12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	WWIE 21 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	26411 26411 266411 266411	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 2000 2000 2000 2000 2000 2000 200	235 235 235 235 272 272 272
LONG	28 E	2000 1000 1000 1000 1000 1000 1000 1000	2 12 9195 26425 26	\$	42444444444444444444444444444444444444	2 10 20 30 40 40 40 40 40 40 40 40 40 40 40 40 40	2 455 455 455 455 455 455 455 455 455 45
ב	24 E	2 44196 12 44196 12 44196 13 442	2 430 102 40 103	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	2 - 12 24 - 25 25 25 25 25 25 25 25 25 25 25 25 25	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1385 2 1385 2 138 138 2 138 138 138 138 138 138 138 138 138 138
	20 E	2 12 30 17 17 17 17 17 17 17 17 17 17 17 17 17	200 100 100 100 100 100 100 100 100 100	2 12 600 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8844 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2000 2000 2000 241 241 2000 2000 2000 20	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	16 E	mmam a= a 8a008m448 6a64a4486	0 400 00 00 00 00 00 00 00 00 00 00 00 0	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	292 292 293 293 294 298 298	00000000000000000000000000000000000000	00-00-00-00-00-00-00-00-00-00-00-00-00-
	12 E	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	826-40-40 826-40-40-40-6	N = N MNW 874470000 9750600000000000000000000000000000000000	2 -12 22 24 20 24 20 24 20 24 20 24 20 20 20 20 20 20 20 20 20 20 20 20 20	86 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	W
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	•	0 40 40 40 40 40 40 40 40 40 40 40 40 40	24688948 24688948 244188948	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	\$\$\$\$\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	0 - 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
STN		<0000mF01J	<8000MF61J	<@U@WLGI7	<0000WLUI7	<8400MFA1J	<800WLUI7
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BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

	120 E	200 00 00 00 00 00 00 00 00 00 00 00 00	, 1110 NU 10466890 105668990	84 84 84 84 84 84 84 84 84 84 84 84 84 8	000 01 100 000 000 000 000 000 000 000	100000 100000 100000000000000000000000	240 240 276 176 176 176 176
	116 E	255 255 255 255 255 255 255 255 255 255	23 23 23 23 23 23 23 23 23 23 23 23 23 2	220 250 250 271 271 111 185	747 747 747 767 767 768 768	200 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WW 4100014
	112 E	88 84 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 110 23 0 100 100 0 100 100 100 100 100 100 100	000 01 000 000 000 000 000 000 000 000	600 01 01 01 01 01 01 01 01 01 01 01 01 0	10 10 10 10 10 10 10 10 10 10 10 10 10 1	WAL-0887-18
	108 E	233 260 274 274 213 213 213	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 200 200 200 200 200 200	258 254 777 73 73 185 185 198	252 252 888 1084 1986 1986	23 25 25 25 25 25 25 25 25 25 25 25 25 25
	104 E	2012 4 4 4 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	233 260 277 271 108 108 118	2330 230 230 201 201 201 201	22 98 4 4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	00 101 00 000 000 000 000 000 000 000 0
	100 E	253 253 253 253	226 224 226 226 226 226	2 24 2 2 2 4 2 2 2 4 4 2 2 2 4 4 4 2 2 4	229 260 260 73 73 191 191 24 24	22 944 94 94 94 94 94 94 94 94 94 94 94 94	232 232 254 203 204 204 204
	96 E	2014 2014 1194 229	2000 00 00 00 00 00 00 00 00 00 00 00 00	2000 000 00 00 00 00 00 00 00 00 00 00 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00 00 00 00 00 00 00 00 00 00 00 00 00	20 20 20 20 20 20 20 20 20 20 20 20 20 2
	92 E	250 260 200 200 200 200 200 200 200 200 20	24888888888888888888888888888888888888	22 4 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20000000000000000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 100 100 100 100 100 100 100 100
980	88 E	W4 441 4 W481-801-84 81-84-801-84	234 236 236 236 236 236 236 236 236 236 236	2 4 2 4 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	23 1 24 26 20 20 20 20 20 20 20 20 20 20 20 20 20
-	84 FF	2 - 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06 32 B 74 B 7	0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1000 NA	00000000000000000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	80 E	23 23 23 23 23 23 23 23 23 23 23 23 23 2	W W W W W W W W W W W W W W W W W W W	24 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2 = 12 mm 2 mm 2 mm 2 mm 2 mm 2 mm 2 mm	233 233 233 233 233 233 233 233 233 233	200100 20000 20000 20000 20000 20000 20000 20000 20000 20000 2000
	76 E	2 1224 248 248 248 25 25 25 25 25 25 25 25 25 25 25 25 25	2 + 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	244 244 244 244 244	2410 2410 2410 2410	2 + 1002	WANDERS W W W W W W W W W W W W W W W W W W W
	72 E	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	2 - 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	80000000000000000000000000000000000000	######################################
	68 E	2 1233 204 2 123 204 2 150 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 112 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2442 2442 2442 2442 2442 2442	242 242 242 242 242 242 242 242 242 242	#####################################
	64 E	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 4 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	00000000000000000000000000000000000000	2 12 3 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	WULUWUL U WWL94L-84 WO46UN406	0 10000 401145 4006 4006 4006
	3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2842 2842 2842 2843 2843 2843 2843 2843	23112461 23112461661 23102405461	00000000000000000000000000000000000000	1242222 12442222 124432222 12443222
2 1	<u>;</u>	<800ULUI7	<8400WE417	<#U0##417	<8000MF61J	<0000MF01J	<8000MF013
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BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

LAT STN

18C E	88- 88- 88- 88- 88- 88- 88- 88- 88- 88-	800 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	848 848 848 848 848 848 848 848 848 848	64 WHEN WE WAS A STATE OF THE S	#1 010#1 4400##F00 44010\$	24 00000 40000000 60000000000000000000000
176 E	W- W-WW 4004W44W9 889-80-80	2000 2000 2000 2000 2000 2000 2000 200	80 80 80 80 80 80 80 80 80 80 80 80 80 8	400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000m404ma 000m404ma	# W W W W W W W W W W W W W W W W W W W
172 E	UI UIUMI 4784844400 648888891	00044000 0004400 000400	EL 2128 47 22 22 22 22 22 22 22 22 22 22 22 22 22	00000000000000000000000000000000000000	2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UNDER - UNDER CONTRACTOR CONTRACT
168 E	WI CHGWI 4884444400 488644460	345 1833 535 1240 1255 107	100000 H 10000	10000000000000000000000000000000000000	50000000000000000000000000000000000000	10044000000000000000000000000000000000
164 E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.000000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01000 01000 0000 0000 0000 0000 0000 0		######################################
160 €	NW N	W- W	134495 13449 134495 13449 13449 134495 13449 134495 134495 134495 134495 134495 134495 134495 134495 134495 134495 134495 134495 134495 134495 134495 134495 134495 13449 13449 13449 13449 13449 13449 13449 13449 13449 13449 13449 134	W	840-840-840 840-840-840 840-840-840	81 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
156 E	198118698 1988118698 19881186	WW WINE W WOARARAWI WARANIA	2000 2000 2000 2000 2000 2000 2000 200	NO 01-881 NO40480WW LINOSIASA	10000 10000 10000 10000 1000 1000 1000	81
152 E	NA 12	24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	W0 0-0W- W04888944 W078040-8	24 24 24 24 24 24 24 24 24 24 24 24 24 2	200 200 200 200 200 200 200 200 200 200	WW WINDL WO 4 0 8 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
148 E	24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	800 2000 800 2000 8000 8	WW WE W	00 00 00 00 00 00 00 00 00 00 00 00 00	US SIBBE SIB SIBBE SIBBE SIB SIB SIB SIB SIB SIB SIB SIB SIB SIB	004 004 004 004 004 004 004 004 004 004
144 E	04-604+685 04-604+685	20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 10 10 10 10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 0	13 18 18 18 18 18 18 18 18 18 18 18 18 18
140 E	MU 2011110 MU 201110 MU 20	23 25 25 25 25 25 25 25 25 25 25 25 25 25	23 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	00 00 00 000 000 000 000 000 000 000 000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	19 10 19 4919 66 1518 4118 1515 4118 151 4118 151 4118 151 4118 151 4118 151
136 E	MU	80 0000 800 000 800 000 800 000 800 000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2	######################################	00 01 E1 000 00 00 000 00 00 000 00 00 000 00 00
132 E	80 01181 6000000000000000000000000000000000	200 200 200 200 200 200 200 200 200 200	00 00 00 00 00 00 00 00 00 00 00 00 00	12 00 00 00 00 00 00 00 00 00 00 00 00 00	13 16 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 -12 22 65 - 66 1 62 1 0 65 - 64 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
128 E	2008+825 5118008+825 5118008+825	200000 20000 20000 20000 20000 20000	000444001 1004444001	232 232 246 246 246 246 246 246 246 246 246 24	12 12 03 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 000 000 000 000 000 000 000 000 000 0
124 E	886 WAR 64N	200 200 200 200 200 200 200 200 200 200	00 01 00 00 00 00 00 00 00 00 00 00 00 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	232 232 467 77 75 75 75 75 75 75 75 75 75 75 75 75	0000mm040
120 E	112 033 1140 1140 1140 1140 1140 1140 1140 1	00000000000000000000000000000000000000	22.0 22.0 22.0 20.0 20.0 20.0 20.0 20.0	140 140 1 140 140 1	440046487	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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	v	v	•	vi	v	•
	er m	g	•	‡	•	8

BEARINGS TO ONEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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	120 W	303 303 303 303 303 303 303 303 303 303	345 345 345 345 35 35 35 35 35 35 35 35 35 35 35 35 35	300 1 1 200 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	265 265 265 265 265 265 265	2011-125 201	2000 2000 2000 2000 2000 2000 2000 200
	124 W	200 110 120 120 120 120 120 120 120 120	2491 1198 1198 1198 1199 1199	0000 0000 0000 0000 0000 0000 0000 0000 0000	2000 1100 1100 1100 1100 1100 1100 1100	220 120 120 170 170 170 170 170 170	01424 0444 0464 0468 0468 0468 0468 0468 046
	128 W	4 - W - W - W - W - W - W - W - W - W -		44444444444444444444444444444444444444	2000 000 000 000 000 000 000 000 000 00	222 232 240 240 240 240 240 240 240 240 240 24	118 - NG 01000-999 888489468
	132 W	00000000000000000000000000000000000000	00 - WH 00 - WH 00 00 00 00 00 00 00 00 00 00 00 00 00	22 - 22 - 22 - 22 - 22 - 22 - 22 - 22	236 236 236 241 269 68	22 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	118 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	136 W	100111 UII 440 400 400 400 400 400 400 400 400 4	10011100 100000 10001110000	18000000000000000000000000000000000000	78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	120 1 420 1 420 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	140 €	40000000000000000000000000000000000000		018 1128 0148 0008 0480 4088 0480 4089	22 42 42 42 42 42 42 42 42 42 42 42 42 4	11E 128 2004 2004 2004 2004 2004	118 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	144 #	700-100 700-000 700-000	40000 40000 40000 40000 40000 40000	00000000000000000000000000000000000000	2210 310 2210 3476 2420 3476	22.25 22.25 22.25 22.25 23.55 25 25 25 25 25 25 25 25 25 25 25 25 2	
	148 ¥	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20000000000000000000000000000000000000	2011 2012 2013 2013 2013 2013 2013 2013	2220000 2200000 2000000000000000000000	14100000 000000 141000000	115 N N N N N N N N N N N N N N N N N N
ONG	152 W	00 00 00 00 00 00 00 00 00 00 00 00 00	89112 W14 891128 891288 891288	00110 0010 00110 0	00000000000000000000000000000000000000	118 9199 9800000 9888999	115 0100 455400000 600460000
7	156 W	2112 3122 201128 201128 201128	80040000 80040000 800400000000000000000	20000000000000000000000000000000000000	048400480 048400480	22012 22000 24000 2600 260 260 260 260 260 260 260 260	111 01100 545400000 54550000
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	164 W	12 12 14 4 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4	4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	32112 408112 9668968696	115 21 25 50 50 50 50 50 50 50 50 50 50 50 50 50	156 156 157 161 161 161 161 161 161 161 161 161 16	11
	168 W	21.0 21.0 21.0 20.0 20.0 20.0 20.0 20.0	M1	0402020 040200 0402000		11 41 11 11 11 11 11 11 11 11 11 11 11 1	X=FF
	172 W	01000000000000000000000000000000000000	20-0000-00 0-0000-00 10000-00	61 01000 61 0000 61 00	0-000000 0-000000 0-000000000000000000	00-040409 00-000000000000000000000000000	7389+179N 17710 17
	176 W	110 10 10 10 10 10 10 10 10 10 10 10 10	135 135 135 135 135 135 135 135 135 135	00-00-00-00-00-00-00-00-00-00-00-00-00-	0+06040460 0+06040460	10 10 10 10 10 10 10 10 10 10 10 10 10 1	00 00 00 00 00 00 00 00 00 00 00 00 00
	7 00 I	44 44 44 44 44 44 44 44 44 44 44 44 44	######################################	091001651 1001651	00-01-010m 000000101 0000001	12 12 13 13 13 13 13 14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	44444446. 112144646 14414
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BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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	69	6	4-004040000000000000000000000000000000	00000000000000000000000000000000000000	90000000000000000000000000000000000000	841000000 840000000000000000000000000000	4400mmmme 4400mmmm 4400mmmm 4400mmmm 4400mmm 4400mmm 4400m
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	89	22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	120 130 130 130 130 130 130 130 130 130 13	200 24055 24055 200 5000 200 5000 200 5000	22 12 22 25 25 25 25 25 25 25 25 25 25 25 25	200 100 000 000 000 000 000 000 000 000	22 132 132 132 132 132 132 132 132 132 1
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	80	00000000000000000000000000000000000000	4004WHU 18104WHU 18104WHU	22.23.405.6 22.23.405.6 26.73.405.6	20 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 2000 2000 2000 2000 2000 2000 200	20 140 110044000 110044400
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40400000000000000000000000000000000000	001 00 47044mama 60400000000000000000000000000000000000	86-44 86-44 86-64-66 86-66-66-66 86-66-	00000000000000000000000000000000000000	00-000-00 0000000000000000000000000000
	88	45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 - 132 45 22 - 132 45 24 - 132 63 24 63 26 63	22 436 236 250 250 250 250 250 250 250 250 250 250	200 - 130 200 -	22 14 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	00000000000000000000000000000000000000
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2	3	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	80087 1808 + 88 80087 180 80087 180 80087 180		0m40m04 0m40m04 0m40m4m4m	-4mam4ma4	00000000000000000000000000000000000000
	3 001	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 00 00 00 00 00 00 00 00 00 00 00 00 0	00 00 00 00 00 00 00 00 00 00 00 00 00	000 - 00 000 - 00 000 - 00 000 - 00 000 - 00 000 - 00 000 - 00 00 - 00	200 1 70 200 1 20 200 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	108 W 1	8 1 00 4 4 6 6 6 4 8 6 6 6 4 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 1 2 5 6 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	00 m m m m m m m m m m m m m m m m m m	00 40 40 40 40 40 40 40 40 40 40 40 40 4	00 - 00 00 + 0
	12 W	25 96 · 25 95 95 95 95 95 95 95 95 95 95 95 95 95	2000000 200000000000000000000000000000	25 7 6 0 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 7 6 6 6 7 6 7 6 6 7 6	20 E	22.66 22.66 22.66 25.56 25.56	00 m m m m m m m m m m m m m m m m m m
	16 0 1	22 946 22 946 24 10 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	2000 2000 2000 2000 2000 2000 2000	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 7 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000 2000 2000 2000 2000 2000 2000	48-46888 48-46888
	20 1	22 - 22 - 22 - 22 - 22 - 22 - 22 - 22	22 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 - 1 - 100 c c c c c c c c c c c c c c c c c c	251 266 266 266 37	2000 2000 201 201 201 201 201 201 201 20	0000-1-000 0000-1-000 0000-1-000 0000-1-000
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*	4-12 22 32 34 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2001 2001 2001 2001 2001 2001	WHIN NOW WIND WATER WATE	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00146-0014 00146-0010 00146-0010	200 84-45 200 86860 200 86866 200 86866
80	4800840 0000000 01-0 000	2000 2000 2000 2000 2000 2000 2000 200	3112 NNS1 0105 NNS1 0105 NNS	8112 2011 112 2011 1020 1020	00091000000000000000000000000000000000	20000000000000000000000000000000000000
12 W	28 21-8 20002-1 31088480	322 322 12 300 322 12 1163 463 11 118 118 118	200 200 1 200 200 1 200 200 1 200 200 1	202 - 1202 - 1202 - 1203 - 120	250 250 110 110 110 110 110 110 110 110 110 1	22 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
16	4000 MUNICATE NO MINISTER NO M	1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	386 MMO96 G 1106 BOO = 1106 BOO	3110 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20000000 20000000000000000000000000000	22 22 12 24 24 24 24 24 24 24 24 24 24 24 24 24
20 8	32 32 32 11 12 30 30 30 30 30 30 30 30 30 30 30 30 30	2000 2000 2000 2000 2000 2000 2000 200	11 00 00 00 00 00 00 00 00 00 00 00 00 0	201108 3108 3	40000000000000000000000000000000000000	04000000000000000000000000000000000000
24	000 01-00 11410-1-00 104040-00	00 00 00 00 00 00 00 00 00 00 00 00 00	04000000000000000000000000000000000000	4 4 4 6 6 6 4 6 4 6 4 6 4 6 4 6 4 6 6 4 6 6 4 6 6 4 6 6 4 6 6 4 6 6 4 6 6 4 6 6 4 6 6 4 6	00 01-00 01-0000-40 0401-60000	844008912 8440488
28 W	11 22 24 24 24 24 24 24 24 24 24 24 24 24	32 32 35 35 35 35 35 35 35 35 35 35 35 35 35	21 20 00 00 00 00 00 00 00 00 00 00 00 00	2470 W W W W W W W W W W W W W W W W W W W	70000000000000000000000000000000000000	300 000 000 000 000 000 000 000 000 000
32 W	ちゃくなっちょうでしょう シャーフー ファイス クーク イン・ファー ファーション・ファー ファーション・ファー ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・	NW NW NN4-0014W NW0+00000	22 22 22 22 22 22 22 22 22 22 22 22 22	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 00 00 00 00 00 00 00 00 00 00 00 00	MA-400 WN
36 16	20000000000000000000000000000000000000	90000000000000000000000000000000000000	32500 32500 32500 35500 35500 35500 35500	22 22 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	00 00 00 00 00 00 00 00 00 00 00 00 00
9	445668644444444444444444444444444444444	30000000000000000000000000000000000000	04840988 04840 04840 04840 04840 04840 04840	00000000000000000000000000000000000000	0004000 0000000 0000000000000000000000	64676766666666666666666666666666666666
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8	80484444444444444444444444444444444444	6440-004 4460-0640 4460-0640	66621-4286 44621-428 44621-428 4466-44	662-020B4	24 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	20000000000000000000000000000000000000
. 55 E	30000000000000000000000000000000000000	M-1414 M-1464 M-1664 M-	00000000000000000000000000000000000000	02424 0242 0242 0242 0242 0242 0242 024	6464 6464 6464 6464 6464 6464 6464 646	30000000000000000000000000000000000000
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BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

	60 E	80108801 0	20000000000000000000000000000000000000	2 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	8411841 8 8411841 8 841184 8418 84184 84184 84184 84184 84184 84184 84184 84184 84184 84184 8418	84400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	36 E	80-980- 8 66880-88 66880-88	6886689 888888 88888 88888 88888 88888 88888 8888	840-04000 840-04000 840-04000 840-04000	2 12 12 12 12 12 12 12 12 12 12 12 12 12	84-884-8 864-880-64 44008888-	WU
	52 E	40112 21 2 40812 21 2 6082 21 60 7082 20 20 20 20 20 20 20 20 20 20 20 20 20	2 -	84 84 84 84 84 84 84 84 84 84 84 84 84 8	2 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	23 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	W - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	4 8 E	400000 00 00 00 00 00 00 00 00 00 00 00	8460 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	200 BE 10 BE	4004 W 400 W 4004 W 4004 W 400	88818 8488 8888 8888 8888 8888 8888 8888	8000 0000 0000 0000 0000 0000 0000 000
	‡	0449maom40 4044maom40 0449maom40	84048 - 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	881-8888888888888888888888888888888888	88-18-88-88-88-88-88-88-88-88-88-88-88-8	2013 2013 2015 2015 2015 2015 2015 2015 2015 2015	0 10 0100 0 11 11 0000 0 11 11 00000
	₩	2652 2672 2672 2652 2653 2653 2653	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2012 21 2 2016 21 2 2016 21 2 2016 21 2 2016 21 2	WHIN WING WHING WING WING WING WING WING WING WING W
	36 E	01830 01831 01830 01830 01830 01830	000487740	0 12 25 12 0 12 0 12 0 12 0 12 0 12 0 12	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000000000000000000000000000000000000	WWW WW W W W W W W W W W W W W W W W W
	32 E	2000 2000 2000 2000 2000 2000 2000 200	255 265 233 240 130 272 272	250 251 261 242 129 272	2000 2000 2000 2000 2000 2000 2000 200	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WW-0 01 0 446408000 880440400
ONG	28 E	WW-0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	2 120 2 171 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 12 2 14 14 14 14 14 14 14 14 14 14 14 14 14	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2012 2012 2012 2013 2014 2014 2015 2015 2015 2015 2015 2015 2015 2015
3	24 E	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 200 200 200 200 200 200 200 200	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 2000 2000 2000 2000 2000 2000 200	801-0 01 0 800-00 0 800-00 0 800-00 0
	20 E	80000000000000000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 200 200 200 200 200 200 200 200	2000 000 000 000 000 000 000 000 000 00	0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 1
	16 E	20000000000000000000000000000000000000	8 9 9 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	2000 000 000 000 000 000 000 000 000 00	00000000000000000000000000000000000000
	12 E	0000-1000 0000-1000 0000-1000 0000-1000	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0-1488494 0-1488494 0-1488494	6-10 01-10 04-16-04 04-16-06-16-16-16-16-16-16-16-16-16-16-16-16-16	20000000000000000000000000000000000000
	9	NONON+8PM 0040400 0040400 000000000000000000000	293 293 293 293 293 293 293 293 293 293	2112 25 20 20 20 20 20 20 20 20 20 20 20 20 20	2004 2004 2004 2004 2004 2004 2004 2004	2006 2006 2006 2006 2006 2006 2006 2006	20000000000000000000000000000000000000
	4	6456664 6666664 6666664 6666664 6666664	00000+00 0000000000000000000000000000	00000000000000000000000000000000000000	00000000 00000000 00000000000000000000	21-2 22 22 22 22 22 22 22 22 22 22 22 22 2	000 000 000 000 000 000 000 000 000 00
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STN		<800006613	<800WLUI7	<0000k0I7	<800Wk927	<800mF41J	< 0 U0NF61J
LAT		9	41 9	w •	ກ ອ	2 \$	8

BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

LAT		89 90	s 9	4	9 9	27 8	26 2
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	68 E	201011 8 101011 8 101011 10101	420141040 440141040	# # # # # # # # # # # # # # # # # # #	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	641444 641444 6414444 64144444	4889448 4889448 488946 488948 489948 48948 48948 489948 48948 48948 48948 48948 48948 48948 48948 48948 48948 48948 48948 48948 48948 48948 48948 489
	72 E		8010000 0 801000000000000000000000000000	000-1-01-0 000-1-01-0 000-1-01-0		20000000000000000000000000000000000000	00000000000000000000000000000000000000
•	76 E	40088086 40080004 0400880000000000000000	00000 00000000000000000000000000000000	804889 804889 804888 804888	240048 240048 240048	000-80080 000-80080 000-80080	24-25-25 24-25 24-25-25 24-25 25 25 25 25 25 25 25 25 25 25 25 25 2
	80 E	2000000 C	2400 407 80 80 80 80 80 80 80 80 80 80 80 80 80	041-120 041-120 044-0044 044-0013	841-84 84 841-84 84 841-84 84 84 84 84 84 84 84 84 84 84 84 84 8	0-46-60 0-46-6	21-6020 21-602
3	84 E	WULLEN 0	201112 201112 2010	40000000000000000000000000000000000000	00000000000000000000000000000000000000	201-20 101-20 101-20 100-20 10	201128 201128 20122 2012 2012 2013 2013 2013 2013 201
ONG	88 E	00 - 100 00 00 00 00 00 00 00 00 00 00 00 00	00000000000000000000000000000000000000	00000000000000000000000000000000000000	0 000000000000000000000000000000000000	+0+00040 -00040 -00040 -00040	00011000 0001000 0001000 0001000
	92 E	00 - 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 200 200 200 200 200 200 200 200 200	262 262 2013 2013 2013 2013 2013	E 2011 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	2000-01 1000-01 1004-000 1004-000	2000 2000 2000 2000 2000 2000 2000 200
	96 E	200 18 20 20 20 20 20 20 20 20 20 20 20 20 20	88 - 18 - 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	88 48 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20 181 52 54 54 54 54 54 54 54 54 54 54 54 54 54	2000 PM	WWW- W 0000-0400 400000004
	100 E	200 1202 1202 1203 1203 1203 1203 1203 1	200 200 200 200 200 200 200 200 200 200	2001 1901 1901 1901 1901 1901 1901	200 100 100 100 100 100 100 100 100 100	2000000 00000000 000000000000000000000	2002 1115 1000 1000 1000 1000 1000 1000
	104 E	00 100 000 00 400 000 00 400 000	120 230 120 250 120 25	WWWW WW W	100 100 100 100 100 100 100 100 100 100	04040F49 04040F49 04040F49	874646446 874646446
	108 E	1000 1000 1000 1000 1000 1000 1000 100	18 18 18 18 18 18 18 18 18 18 18 18 18 1	W	00000000000000000000000000000000000000	100 100 100 100 100 100 100 100 100 100	131 25 131 25 130 4 6 6 10 10 6 6 6 8 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9
	112 E	20 121 1 147 0883 18 988488849	10 -00 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	100 100 100 100 100 100 100 100 100 100	100 - 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 100 m	20 -02 -0 000000000000000000000000000000
	116 E	240 240 2004 2004 2004 2004 2004 2004 2	240 240 170 170 181 183	2310 2310 174 1811 1811 1811	230 230 230 230 230 31 31 31	2000000 8-4-200000 8-4-200000	22 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	120 E	238 238 240 270 176 178 178	233 236 236 236 178 178 178	2308 2308 1782 1784 1788 1788 1788	230 230 230 24 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	22 22 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	22 22 24 24 24 24 24 24 24 24 24 24 24 2

BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

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180 E	W- N-WW- W- W- W	12012011 12012011 12012011	1000 1000 1001 1001 1001	100-10-10 10-10-10-10 10-10-10 10-10 10-10-10 10-10-10 10-10-10 10-10-10 10-10-10 10-10-10 10-10-10 10-10-10 10 10-10 10 10-10 10 10-10 10 10-10 10 10 10-10 10 10 10 10 10 10 10 10 10 10	200 200 200 200 200 200 200 200 200 200	00-00000000000000000000000000000000000
176 E	0100000 0100000 01000000 01000000	### ##################################	01 01 00 00 00 00 00 00 00 00 00 00 00 0	201 00 00 00 00 00 00 00 00 00 00 00 00 0	01 01 00 00 00 00 00 00 00 00 00 00 00 0	00000000000000000000000000000000000000
172 E	122 122 123 123 123 133 133 133 133 133	1213406743	120 121 121 121 121 120 120 120 120	1222 1222 1222 1222 1222 1223 1223 1223	12 24 24 24 24 24 24 24 24 24 24 24 24 24	12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13
168 E	13310 13310 1340 13510 1	13316 3320 13314 4 6 5 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01 01881 0880 04884 0880 0488	100 100 100 100 100 100 100 100 100 100	011 01881 020 4 000 020 6 000	01 01 01 01 01 01 01 01 01 01 01 01 01 0
164 E	W= 04000 -000044000 000440004	00000000000000000000000000000000000000	00000000000000000000000000000000000000	01 011011 2011-4400 2011-4400 2011-4-0	0- 0-00- 0-00	02 02 02 02 02 02 02 02 02 02 02 02 02 0
160 E	131 192 192 194 194 198 198 198	8-00-00-00-00-00-00-00-00-00-00-00-00-00	129 129 139 139 139 139 139 139 139 139 139 13	010 010 010 010 010 010 010 010 010 010	19918 400 19918	2006-1444 2006-1444 2006-1444
156 E	01 01 01 01 01 01 01 01 01 01 01 01 01 0	N- N-NM- 004-8884WW -90800-84	100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 10 10 10 10 10 10 10 10 10 10 10 10 1	- 240 -	04-04-04-04-04-04-04-04-04-04-04-04-04-0	01 01 01 01 01 01 01 01 01 01 01 01 01 0
152 E	24 - 24 - 26 - 26 - 26 - 26 - 26 - 26 -	200 200 200 200 200 200 200 200 200 200	000 000 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 100 100 100 100 100 100 100 100 100	00400000000000000000000000000000000000	01 01EE
148 E	24 24 24 24 24 24 24 24 24 24 24 24 24 2	NA NEW NA 600 44 600 W W W W W W W W W W W W W W W W W W	00 01585 00468864 00468688	000 0-00- 000 000 000 000 000 000 000 00	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00
144 E	12 12 23 14 55 42 25 15 16 6 9 9 4 7 2 2 4	12 23 14 56 14 56 14 66	12 200 13 12 200 14 12 13 13 13 13 13 13 13 13 13 13 13 13 13	20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	000000 450 474500474
140 E	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	28 28 28 28 28 28 28 28 28 28 28 28 28 2	22 22 25 25 25 13 15 15 15 15 15 15 15 15 15 15 15 15 15	0750000 000000 000000000000000000000000	010101 0100011 0100011
136 E	00 00 00 00 00 00 00 00 00 00 00 00 00	20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 21 81 20 20 20 81 20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	22 22 20 20 20 20 20 20 20 20 20 20 20 2	00101010 001041001 001041000
132 E	20 20 20 20 20 20 20 20 20 20 20 20 20 2	18 18 28 58642222 586442222	10 10 10 10 10 10 10 10 10 10 10 10 10 1	00000000000000000000000000000000000000	000 000 000 000 000 000 000 000 000 00	00 - 01 - 01 00 - 01 - 01 - 00 00 - 01 - 01 - 01 00 - 01 - 01 - 01
128 E	120 631 172 630 164 172 167 172	221 226 226 177 170 160 160 160 160 160 160 160 160 160 16	220 220 221 220 270 270 270 270 270 270 270 270 270	220 220 120 120 160 160 160 160	079-079 079-079 079-079 079-079	20 121 12 20 121 1 20 12 12 12 12 12 12 12 12 12 12 12 12 12
124 €	64 41 1 1 64 64 64 64 64 64 64 64 64 64 64 64 64	2 1410622 1440622 144360622	10101010101010101010101010101010101010	1 328 1 200 1 328 1 200 1 358 1 200	22 121 220 128 318 128 128 128 128 128 128 128 128 128 128 128 128	20 101 100 100 100 100 100 100 100 100 1
120 E	22 22 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	1 121 NU 7 00 00 10 10 10 10 10 10 10 10 10 10 10	1 121 740 7 4701 740 7 660 100	1 100 Bull 130 bull 1	446464 1 446464 1	22 22 23 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25
	<600mf613	<8000WLUE7	<800mf61J	<8000MF&13	<600mF01J	<8000WEGZ7
	s	v	•	•	v	vi
	3	3	3	3	4	92

BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

120 🕊	200 200 200 200 200 200 200 200 200 200	1000 1 000 1000 1 000 1000 1000 100	2000 2000 2000 2000 2000 2000 2000 200
124 W	1112 1122 1722 1722 1732 1732 1732 1732	0110 0110 0110 0110 010 010 010 010 010	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
128 W	200 200 200 200 200 200 200 200 200 200	221130 2218 2418 262 662 653	331 331 189 189 255 255
132 W	3000 3000 3000 3000 3000 3000 3000 300	2011 1321 1321 1331 1331 1331 1331 1331	2014 1042 2044 2044 2044 2044 2044
136 🖢	118 1 00 ESEMPORTE 14001050E	115 - 88 4860 - 86 6864-6806	118 1 20 40 40 40 40 40 40 40 40 40 40 40 40 40
140 E	137 188 1986 1986 176 176	1400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000 1000 1000 1000 1000 1000 1000 100
3 + + 1		1118 1 00 884400000 884400000	118 1 20 20 20 20 20 20 20 20 20 20 20 20 20
148 #	118 0 00 400 400 400 400 400 400 400 400 40	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	279 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
152 W	1118 4 84 84400 488 804400 888		178 0 00 00 00 00 00 00 00 00 00 00 00 00
156 W	0480-0666 0480-0666 048000800		
160 W	011 0110 04 010000 0000444000	000000 000000 000000000000000000000000	24 20 20 20 20 20 20 20 20 20 20 20 20 20
164 W	11 21 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	00000000000000000000000000000000000000	75 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
168 W		00-000-00 00-000-00 00-000-00	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
172 W	0-10-10-10-10-10-10-10-10-10-10-10-10-10		100 100 100 100 100 100 100 100 100 100
176 W	00 00 00 00 00 00 00 00 00 00 00 00 00	10000000000000000000000000000000000000	0891 881 881 881 881 881 881 881 881 881
1 00 E	09-1000 11-000 1000 1000 1000 1000 1000	11 01001 000 01001 001001 001001	10000000000000000000000000000000000000
	イロしの出たはこつ	<0000WLUI7	<8000WL017
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	9	•	0

BEARINGS TO UNEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

STR

3			
9	444418 444418 44418	44444444444444444444444444444444444444	84008-10446 84008-10446 84008-10446
# *	00000000000000000000000000000000000000	00000000000000000000000000000000000000	2000 2000 2000 2000 2000 2000
68 W	22 133 24 133 20 24 4 4 7 1	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	70 20 20 20 20 20 20 20 20 20 20 20 20 20
72 W	22 - 132 - 1	1036 B 966 122 1036 1036 1036 1036 1036 1036 1036 1036	132 201 133 102 102 102 102 103 103 103 103 103 103 103 103 103 103
M 92	0 m = 0 m 0 m 0 m = 0 m m n m = 4 m m o 4	000 - 000 -	できょ こご できっきました。 できらきで! こう 4
, × 08	25 130 01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 = 0.00 0.00 = 0.00 = 0.00 0.00 = 0.00 = 0.00 0.00 = 0.00 = 0.00 0.00 = 0.00 = 0.00 0.00 = 0.00 = 0.00 = 0.00 0.00 =	00 = 00 00 = 00 00 = 00 00 = 00
8	22 1 1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22 - 132 22 - 24 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4	22 148 48 48 48 48 48 48 48 48 48 48 48 48 4
ò		ลิต = "ผล	
88	1451 1451 1451 1451 1619	1000 1000 1000 1000 1000 1000	22144 234 234 234 268
92	22 1 32 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- MM - M
≥	NN - 188 MMW W5590000 MMW W55900000	00 - 00 - 00 0 0 0 0 0 0 0 0 0 0 0 0 0	- NW- NN 000000400 0000000400
A 001	860 1 448 860 16448 860 16448	0000 - 000 0000 - 000 000	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
104 1	W - W - W - W - W - W - W - W - W - W -	100 8 1 2 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	11 M M M M M M M M M M M M M M M M M M
M 801	W = WW W = WW W = W = W = W = W = W = W	100 200 100 100 100 100 100 100 100 100	11 W W W W W W W W W W W W W W W W W W
115 W		110 1 00 101-600 1-6061480	1100 1 82 1001-6
116 1	200 - 000 200 - 000 200 200 200 200 200 200	110 1 410 120 1	2000 2000 2000 2000 2000 2000 2000 200
120 W	108 1 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10000000000000000000000000000000000000	00000 0000 0000 0000 0000 0000 0000 0000
	<80084413	<8000WLUI7	<000MF01J
	•	ø	v
	9	•	9

BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

	0	2000 00 00 00 00 00 00 00 00 00 00 00 00	2000 2000 2000 2000 2000 2000 2000 200	14000000000000000000000000000000000000
	3	2023 2023 3024 3024 3024 404 404 404 404 404 404 404 404 404	22021 22031 3034 3034 3034	2009 2009 2009 2009 2009 2009 2009 2009
	3	00000000000000000000000000000000000000	22122 22122 22122 2323 3324 476	466 4000 466 4000 466 4000
	3	110 20 110 110 110 110 110 110 110 110 1	25 25 25 25 25 25 25 25 25 25 25 25 25 2	200 00 00 00 00 00 00 00 00 00 00 00 00
	16 W	20 00 00 00 00 00 00 00 00 00 00 00 00 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 20 20 20 44 45 45 45 45 45 45 45 45 45 45 45 45
	20	22 24 22 24 24 24 24 24 24 24 24 24 24 2	222 22 222 22 23 23 23 24 31 24 38 24 31 24 38 38 24	222 31 222 31 31 35 44 164 34 45 45 45 45 45 45 45 45 45 45 45 45 45
	24 W	200 200 200 200 200 200 200 200 200 200	4-282-4 24-89-64-4 3-14 22-4	1000 PT 1000 P
	28 ₩	2232 2234 224 325 324 324	2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 00 00 00 00 00 00 00 00 00 00 00 00
ي	32 W		2000 00 00 00 00 00 00 00 00 00 00 00 00	
LONG	36 W	#####################################	00000000000000000000000000000000000000	10 00 00 00 00 00 00 00 00 00 00 00 00 0
	3 04	#W400##################################	40400000000000000000000000000000000000	00466460 469460 4694660 464660 46460 46460 46460
	3 **	00000000000000000000000000000000000000	00000000000000000000000000000000000000	110000000 1000000000000000000000000000
	_	30-00-00 400-000-4 30-40000-4	445184841 446484841 8464841	1040-040 1040-040 1040-040
	52	450420818 889420818 88844	20000000000000000000000000000000000000	0 4 0 1 0 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1
	B 99	######################################	46-104-15 1	0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	3 09	881 881 881 881 881 881 881 881 881 881	80 81 48 80 10 10 10 10 10 10 10 10 10 10 10 10 10	00000000000000000000000000000000000000
STN		<@U0WLUI7	< 4 00mm631	<8000MF@1.
LAT		s 9	v •	ν, 10

BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

	60 E	2 6458 2 400 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	201284 201384 201488 20148	20000000000000000000000000000000000000
	56 E	######################################	MANUMAN 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	049F0FM0M
	E S			
	52	2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2012 21 22 22 22 22 22 22 22 22 22 22 22 2	2002 1508 1508 1008 1008 1008 1008 1008 1008
	48 €	233 233 233 105 235 255	233 233 245 245 252	2008 215 215 215 200 200 200 200 200 200 200
	44 E	2008 2008 2008 2008 2008 2008 2008 2008	2000 2000 2000 2000 2000 2000 2000 200	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	6 0	2341 2341 245 246 260	2000 2000 2000 2000 2000 2000 2000 200	2000 2000 2000 2000 2000 2000 2000 200
	w	0 400000000000000000000000000000000000		
	E 36		WW-4 4-4	2000 000 000 000 000 000 000 000 000 00
	32	200 200 200 200 200 200 200 200 200 200	345 345 235 235 245 245 268	343 317 170 24 24 261 116 267
LONG	28 E	0014408345	801-00 01 00 00 00 00 00 00 00 00 00 00 00 0	246 235 235 265 120 170
2	24 E	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2326 243 243 263 276 276	232 232 232 233 233 24 24 27 27
	20 E	2005 2005 2005 2005 2005 2005 2005 2005	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2329 244 273 273 273 273
	16 E	2000 2000 2000 2000 2000 2000 2000 200	2004-000 2004-000 2004-000 2004-000	2000 2000 2000 2000 2000 2000 2000 200
	12 E	2001 2001 201 201 201 200 200 200 200 20	285 285 285 287 287	200 - 200 -
	6	25414 0-44060 0-44060 0-44060	4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0100 SEE
	ш		•	.,,,,,,
	•	2000 2000 2000 2000 2000 2000 2000	6000 0000 6000 0000 60000 0000	21
	•	00400 00400 00400 000000	00004000000000000000000000000000000000	# # # # # # # # # # # # # # # # # # #
STN		<800mm61J	<000mm613	<8000WL0I7
=		vi	vi T	v
5		8	5	6

BEARINGS TO DMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

STR

120 E	227 231 138 138 138 138	2367 230 1231 1233 1233 133	258 230 240 140 175 175
116 E	200 200 200 200 200 200 200 200 200 200	700 - 101 - 10 - 10 - 10 - 10 - 10 - 10	00 -01 -0 000 +00 -0 -0 000 +00 -0 -0 00 +00 +00 +00 +00 +00 +00 +00 +00 +00
112 E	10000000000000000000000000000000000000	227 237 237 230 130 130 160 160 160	00000000000000000000000000000000000000
108 E	00 - 10 - 1 04040004-0 000440004	2279 2479 2479 2479 2479 2479 2479	22 22 22 24 20 20 20 20 20 20 20 20 20 20 20 20 20
104 E	200 12 12 12 12 12 12 12 12 12 12 12 12 12	00 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25
100 E	22 22 23 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	0001111 00001101 0001101 0001101	00000000000000000000000000000000000000
96 E	00000000000000000000000000000000000000	2000000 2000000 2000000 20000000000000	0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
92 E	200112000 200112000 2000400 200040	20000000000000000000000000000000000000	201128 20128 20139 20139 20139 20139
88 E	841-184 941-186 4800881 8800881	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200
84 E	20011120 2002141 200741	2411261 2041166 241668 2416861 24168	2001-120 201
80 E	24 - 11 - 12 - 12 - 12 - 12 - 12 - 12 -	2000 2000 2000 2000 2000 2000 2000 200	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
76 E	24 24 24 24 24 24 24 24 24 24 24 24 24 2	84408080 C	2011 1004 1004 1004 1004 1004 1004 1004
72 E	20000000000000000000000000000000000000	######################################	2000 2000 2000 2000 2000 2000 2000 200
68 E	001-00 0000-00	2000-1000 C	200 200 200 200 200 200 200 200 200 200
64 E	60-000 00-000 00-000 00-000 00-000 00-000 00-000 00-000 00-000 00-000 00-000 00-000 00-000	2090-1090 2090-1090-1090 2090-1090 2090-1090 2090-1090 2090-1090 2090-1090-1090 2090-1090-1090 2090-1090-1090 2090-1090-1090 2090-1090-1090 2090-1090-1090 2090-1090-1090 2090-1090-1090-1090 2090-1090-1090-1090 2090-1090-1090-1090-1090-1090-1090-1090-	20000000000000000000000000000000000000
60 E	000-000 0000000 000-00000	80-48-890 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 80-48-80 8	20000000000000000000000000000000000000
	<budwegi7< td=""><td><8400MF61J</td><td>< むいいが にんごう</td></budwegi7<>	<8400MF61J	< むいいが にんごう
	s •	Ø.	ທ ອ

BEARINGS TO OMEGA STATIONS (CLOCKWISE FROM NORTH IN DEG)

LAT STN

3 081	041222 	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 2000 2000 2000 2000 2000 2000 200
176 E	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	120 120 120 120 120 120 120 120	00000000000000000000000000000000000000
172 E	27 20 20 20 20 20 20 20 20 20 20 20 20 20	120 120 120 120 120 120 120 120 120 120	011 011WU10 010W44WU10 010W44W44
168 E	122 123 133 133 133 133 133 133 133 133	00000000000000000000000000000000000000	1207 1328 1328 1308 1308 130
164 E	200 200 200 200 200 200 200 200 200 200	121 122 132 132 132 132 132 132 132 132	21 21 21 22 22 22 22 22 22 22 22 22 22 2
160 E 1	1885021 1885021 1885021 1885021	1889 1889 1889 1889 1889 1889 1889 1889	121 121 121 121 121 121 121 121 121 121
156 E 1	22 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	122 123 123 123 123 123 123 123 123 123	01 -01-88-1 004004684 08400-46
152 E 1	1044099888888888888888888888888888888888	1995 1995 1995 1995 1995 1995 1995 1995	10000000000000000000000000000000000000
148 E 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200
144 E 1	225 225 225 267 343 53 343 53	20 120 200 120 120 120 120 120 120 120 1	14 121 202 14 571 565 156 371 665 156 371 665
140 E 1	225 221 221 221 250 250 250 250	2246 2246 2216 2216 233 336 336 336 336	2237 209 1120 275 156 350 158
36 E 1	24 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	255 2120 2120 161 162 162	20 20 20 20 20 20 20 20 20 20 20 20 20 2
32 E 1	226 226 226 23 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	6066+-4000 6066+-4000 6066+-4000	22 22 22 22 22 22 22 22 22 22 22 22 22
28 E 1:	0 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2250 2250 242 2620 1 266 1 7 0 - 1	201 201 201 201 201 201 201 201 201 201
24 E 12	1 120 55 130 5 130	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4000000
120 E 12		20 101 20 2	
7	<000mm622	<8000MF613	<0000mr013
	-2-1-2-1		
	vi O	v	v
		•	6